

PERSONAL INFORMATION

Alexandru PASCU



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Sex | Date of birth | Nationality Romanian

WORK EXPERIENCE

October 2015 - present

Full Professor, Associate professor (2017 - 2021), Lecturer (2015 - 2017)

Department of Materials Engineering and Welding, Faculty of Materials Science and Engineering, Transilvania University of Braşov, 1 Universităţii street, Room All 1 Braşov. <https://sim.unitbv.ro/>

- Dean of the Faculty of Materials Science and Engineering (2024 -)
- PhD coordinator in Industrial engineering field
- Head of the research center Advanced Welding Eco-technologies
- Erasmus coordinator of the Faculty of Materials Science and Engineering
- Teaching courses related with Materials science, Robotics, Welding Engineering and research activities in the field of Industrial Engineering

Business or sector Education and Research

2005-2008

Production engineer (Buses department)

S.C. ROMAN SA, No. 5, Poienelor, 500036, Braşov, Romania

- Responsible with welding, design and construction of prototype components in buses manufacturing department;
- Organization of work routines and production schedule;
- Optimization of production flow;
- Identification of suppliers and acquisition of raw material and consumables for mass production.

Business or sector Automotive industry

EDUCATION AND TRAINING

April 2014 – October 2015

Postdoctoral

EQF level 8

Department of Materials Engineering and Welding, Faculty of Materials Science and Engineering, Transilvania University of Braşov

- Fundamental scientific research in the field of laser cladding.

October 2008 – September 2011

Doctor of Philosophy in Industrial Engineering

EQF level 8

Department of Materials Engineering and Welding, Faculty of Materials Science and Engineering, Transilvania University of Braşov

- Laser welding technology;
- Thesis title: *Improving or reconditioning metallic surfaces trough coaxial laser cladding with high-alloyed powders.*

October 2009 – September 2011

Master of Science in Laser Technology

EQF level 7

E.T.S. de Ingenieros Industriales, Universidad Politécnica de Madrid, Spain

- Laser physics and industrial applications of laser technology;
- Laser welding, cladding and cutting processes.
- Laser micro-processing of advanced materials.

October 2005 – October 2007

Master of Science in Welding Engineering

EQF level 7

Faculty of Materials Science and Engineering, Transilvania University of Braşov
 ▪ Materials science, conventional and advanced welding technologies.

October 2000 – June 2005

Bachelor of Science in Engineering

EQF level 6

Faculty of Materials Science and Engineering, Transilvania University of Braşov
 ▪ Materials science, welding techniques, welding equipment
 ▪ WPS – Welding Procedure Specifications.

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1/2	C1/2	C1/2	B1/2	C1/2
Spanish	C1/2	B1/2	B1/2	B1/2	B1/2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

Organisational / managerial skills

- Vice Dean of the SIM Faculty 2019 – 2024;
- Member of the Materials Engineering and Welding Department Council 2018 – present;
- Member in the Board of the Faculty of Materials Science and Engineering;
- President of the Brasov Branch within ASR – Romanian Welding Association;
- Participation in national and international scientific research projects;
- Experience in organizing international conferences, seminars, and workshops;
- Ability to strategically allocate resources to maximize research and development activities;
- Ability to assess and improve the quality of academic and research programs.

Job-related skills

- Engineering – Welding engineering and technology;
- Research – member in 3 national and 6 international research grants;
- Design – Welding technology and procedures;
- Competence in the design, welding process selection and operation of welding equipment, automation, robotics and welding process integration in complex manufacturing systems;
- Familiar with complex tasks and multitasking in the industrial production area

Computer skills

- Hardware knowledge
- Good knowledge of Microsoft Office™ tools (Word™, Excel™, PowerPoint™ and Outlook™)
- Digital image processing - CorelDraw™, PhotoShop™
- Programming –Pascal
- 3D modelling – SolidWorks™
- FEA – COSMOS™, SYSWELD™.

Other skills

- CNC machine operator-programmer (Haemmerle);
- Operator-programmer of industrial robots;
- Skills in MIG/MAG, TIG, MMA welding;
- Flame coating;
- Laser welding and cladding;
- Related skills in research in the field of laser processing, laser spectroscopy, materials science, surface engineering, advanced materials testing, etc.

Driving license

Category B (2000), Category A (2008)

ADDITIONAL INFORMATION

Publications

- Publication of 8 books and more than 60 scientific papers in technical journals;

Projects

- Director of the international ERASMUS+ project 2023-1-RO01-KA220-HED-000159985, titled: Smart Healthcare Engineering;
- Director of 4 international projects under EU-DG RTD Solar Facilities for the European Research Area | SFERA (France, Italy);
- Member of the research team for 8 projects under EU-DG RTD Solar Facilities for the European Research Area | SFERA (Spain, Italy);
- Member of the research team for two international research projects with the business environment (Delft Enterprises B.V. and Technische Universiteit Delft);
- Member of the research team in 4 Romanian national contracts.

National and international visibility

- Evaluator for ARACIS, RNE C10. ENGINEERING SCIENCES I
- Reviewer for Web of Science indexed journals: Applied Surface Science, Journal of Spectroscopy, Solar Energy Journal, Journal of materials science, Materials, Coatings;
- Chairman of the international conference BRAMAT 2024 13th INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE & ENGINEERING;
- Member of the scientific committee of The Second International Symposium on Modern Engineering Equipment and Technology 2023;
- Member of the organizing committee of conferences, ESTAC12 12th European Symposium on Thermal Analysis and Calorimetry – 2018 and BRAMAT 2017, 2019, 2022;
- Key-note speaker at the 8th Iran International Conference & Exhibition on Materials Science & Metallurgical Engineering – October 7th, 2019;
- Research activities in international laboratories such as: Centro Laser at the Polytechnic University of Madrid, IPCC and Nanoscience and Nanomaterials Lab. at the University of Las Palmas de Gran Canaria, ENEA at the Italian National Agency for New Technologies, Energy and the Environment, PROMES at the Institute of Engineering and Systems Sciences (INSIS), PSA at the Centre for Energy, Environment and Technology Research.
- Participation in numerous national and international conferences in the technical field.

Distinctions

- Gold medal at the 8th European Exhibition of Creativity and Innovation with handbook entitled *Materials Science and Engineering*;
- Patent, No. 133180/30.08.2022, FeCrAl(Y) type alloys and method for obtaining a product from this alloy, V. Geanta, I. Voiculescu, R. Ștefănoiu, V. Fugaru, E.M. Stanciu, A. Pascu, C. Postolache, M.R. Ioan.

Date: 01.02.2025

Signature